

Variety and universality of bulk-edge correspondence in topological phases: From solid state physics to transdisciplinary concepts  
 Grant-in-Aid for Scientific Research (S) Project No.17H06138

9:00-12:30, March 26 (Fri.) 2021						
Start	End	Chair				
9:00	9:30	A. Kimura	Project	Yasuhiro Hatsugai	U. Tsukuba	Science of bulk-edge correspondence
9:30	10:00		Project	Tohru Kawarabayashi	Toho U.	Bulk versus Edge States under Generalized Chiral Symmetry
10:00	10:40		Project	Satoshi Iwamoto	U. Tokyo	Topological photonics in various dimensions
10:40	10:50	Photo/Break				
10:50	11:30	T. Fukui	Invited (long)	Masaya Notomi	NTT/Tokyo Inst. Tech	Reconfigurable topological nanophotonics and topological singular points
11:30	11:50		Invited (short)	Natsuko Ishida	U. Tokyo	Analysis of a single-mode array laser based on a topological edge state
11:50	12:10		Invited (short)	Shun Takahashi	Kyoto Inst. Tech.	Microwave observation of an optical Weyl point and topological surface states in a chiral photonic crystal
12:10	12:30		Invited (short)	Kenichiro Imura	Hiroshima U.	Bulk-edge correspondence in non-Hermitian topological systems with non-reciprocal hopping
9:00-12:30, March 29 (Mon.) 2021						
Start	End	Chair				
9:00	9:30	S. Iwamoto	Project	Takahiro Fukui	Ibaraki U.	HOTI in a magnetic field, Dirac pump, and 1D diffusion equation
9:30	10:00		Project	Hideo Aoki	AIST/U. Tokyo	Various routes to topological superconductors
10:00	10:40		Invited (long)	Takahiro Morimoto	U. Tokyo	Geometrical nonlinear phenomena
10:40	10:50	Photo/Break				
10:50	11:30	Y. Takahashi	Project	Akio Kimura	Hiroshima U.	Nodal link semimetals and their surface states probed by ARPES
11:30	11:50		Invited (short)	Hideaki Iwasawa	QST	ARPES study on various directional planes in high-T <sub>c</sub> cuprates seeking for zero-energy bound states
11:50	12:10		Invited (short)	Toshikaze Kariyado	NIMS	Deriving effective models in twisted bilayer systems
12:10	12:30		Invited (short)	Tsuneya Yoshida	U. Tsukuba	Chiral edge modes of coupled rock-paper-scissors cycles
9:00-12:30, March 30 (Tue.) 2021						
Start	End	Chair				
9:00	9:20	Y. Hatsugai	Invited (short)	Tomonari Mizoguchi	U. Tsukuba	Bulk-edge correspondence in semi-metals: Transfer matrix study of anti-chiral edge modes
9:20	9:40		Invited (short)	Yoshihito Kuno	U. Tsukuba	Topological spin pump and bulk-edge correspondence in $S \geq 1$ spin chain
9:40	10:00		Invited (short)	Koji Kudo	U. Tsukuba	Adiabatic heuristic principle on a torus and anyon pumping
10:00	10:40		Project	Yoshiro Takahashi	Kyoto U.	Study of topological phenomena using trapped cold atoms
10:40	10:50	Photo/Break				
10:50	11:30	T. Kawarabayashi	Invited (long)	Tomoki Ozawa	Tohoku U.	Non-Hermitian geometry in synthetic metamaterials
11:30	11:50		Invited (short)	Kazuya Yamashita	Kyoto U.	Experiment towards the realization of topological atom laser
11:50	12:10		Invited (short)	Yuma Nakamura	Kyoto U.	Development of an optical tweezer array system with Rydberg atoms
12:10	12:30		Invited (short)	Nobuyuki Takei	Kyoto U.	Competition and interplay between topology and quasi-periodic disorder in Thouless pumping of ultracold atoms
12:30	12:35		Project	Yasuhiro Hatsugai		Closing